

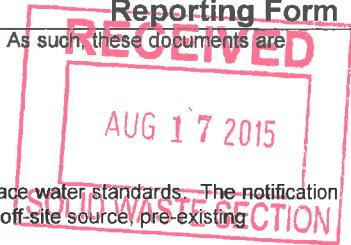
DENR USE ONLY: Paper Report Electronic Data - Email CD (data loaded: Yes / No)

Doc/Event #:

**Environmental Monitoring
Reporting Form**

NC DENR
Division of Waste Management - Solid Waste

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

**Instructions:**

- Prepare one form for each individually monitored unit.
- Please type or print legibly.
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i)).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Quible & Associates, P.C. (On behalf of Currituck County)

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Steve Jones (Environment 1)

Phone: 252.756.6208

E-mail: _____

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Currituck County Landfill	216 Airport Road	27-01	.0500	June 10, 2015

Environmental Status: (Check all that apply)

Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

<input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells	<input type="checkbox"/> Methane gas monitoring data
<input type="checkbox"/> Groundwater monitoring data from private water supply wells	<input type="checkbox"/> Corrective action data (specify) _____
<input type="checkbox"/> Leachate monitoring data	<input type="checkbox"/> Other(specify) _____
<input checked="" type="checkbox"/> Surface water monitoring data	

Notification attached?

- No. No groundwater or surface water standards were exceeded.
- Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Warren Dennis Eadus

Agent

252.491.8147

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Affix NC Licensed Professional Geologist Seal

Signature

Date

PO Drawer 870 Kitty Hawk, NC 27949

Facility Representative Address

PE Corporate License C-0208/ PG Corporate License C-468

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009



Quible

Quible & Associates, P.C.

ENGINEERING • ENVIRONMENTAL SCIENCES • PLANNING • SURVEYING
SINCE 1959

P.O. Drawer 870
Kitty Hawk, NC 27949
Phone: 252-491-8147
Fax: 252-491-8146
web: quible.com

August 13, 2015

Donald Herndon
NC DENR-Division of Waste Mgt-Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: Environmental Reporting Form
Currituck County MSW Landfill
Permit #27-01

Mr. Herndon:

Please find enclosed an Environmental Monitoring Reporting Form and associated data and documentation related to the groundwater and surface water sampling activities conducted at the above referenced facility on June 10, 2015 by Environment 1, Incorporated (Environment 1). Quible & Associates, P.C. (Quible) was asked to review the laboratory analytical data and provide the appropriate technical assistance in fulfilling the Division of Waste Management Solid Waste Sections' (Division) reporting requirements.

Based on the groundwater analytical results reported in the June 10, 2015 laboratory analytical report, the concentrations of arsenic reported in the groundwater samples collected from Well #1 (31 µg/L) exceed the SWSL. Concentrations of barium reported in the groundwater samples collected from Well #8 (118 µg/L) exceed the SWSL.

Concentrations of benzene reported in the groundwater samples collected from Well #6 (1.80 µg/L) and Well #8 (1.50 µg/L) exceed the 2L GQS and the SWSL. Concentrations of toluene (0.30 µg/L) that do not exceed the SWSL or the 2L GQS were detected above the method detection limit.

Concentrations of chlorobenzene reported in the groundwater samples collected from Well #8 (3.80 µg/L) exceed the SWSL.

Based on the groundwater analytical results reported in the June 10, 2015 laboratory analytical report, no concentrations of any metals or volatile organic compounds were reported above the 2L GQS or the SWSL in the surface water sample collected. However, concentrations of vinyl chloride (0.7 µg/L) that exceed the method detection limit was detected in the sample collected from the Pond.

Tables summarizing the groundwater analytical data for groundwater and surface water samples with detectable concentrations of metals and volatile organic constituents from the last 16 sampling events (eight and a half years) have been included with this submission. A copy of the most recent laboratory analytical report and a table entitled; *Table of Values Which Exceed Established Standards And/Or Exceed Reporting Levels*, submitted to Currituck County by Environment 1 have also been included.

Barium and Arsenic are naturally occurring metals that are readily found in measurable quantities in both groundwater and soils in the coastal plain of North Carolina. Therefore, it is not clear if the concentrations reported in the laboratory report are a result of natural background levels of this naturally occurring metal.

A review of the last eight and a half years of groundwater and surface water sampling data indicates that concentrations of all metals analyzed are generally stable and the concentrations that have or currently do exceed the 2L GQS are likely, or at least potentially, naturally occurring. Analytical data will continue to be monitored and any future irregularities or sharp increases in reported metal concentrations will be considered and addressed, as each case may warrant.

Benzene is typically associated with petroleum and/or petroleum based products. Concentrations of benzene that exceed the 2L GQS have been reported in the groundwater samples collected from Well #6 and Well #8 for the last five years and now consistently exceed the 2L GQS while benzene concentrations reported in the groundwater samples collected from Well #5 in previous years has decreased slightly with no detection of benzene at or above the specified MDL as reported in the laboratory report of analysis for the last year.

Concentrations of chlorobenzene (3.80 µg/L) that exceed the SWSL were reported in the groundwater samples collected and analyzed from Well# 8. Chlorobenzene is commonly used in the manufacture of pesticides, dyes, and rubber and degrades only very slowly once dissolved in groundwater. Reported concentrations of chlorobenzene are relatively low, appear to be stable, and do not currently appear to pose a significant threat to human health or the environment.

There is continued detection of volatile organics occurring and reported contaminant concentrations for VOC's during this sampling event are generally consistent with concentrations observed over the last four or five years.

A thorough review of the data over the last eight and a half years, clearly shows that the contaminant levels in the groundwater samples are fairly constant with some minor fluctuation (possibly due to fluctuating seasonal well volume) in VOC's concentrations indicating that there is likely a source of VOC contamination in the landfill. However, the concentrations are apparently stable and there does not appear to be any immediate threat to human health or the environment as a result.

A Shallow Water Table Surface Map that has been generated using the reported depth to water measurements (performed by Environment 1) has been included. In general and based on the latest data, groundwater at the site is moving toward the southeast.

The next scheduled sampling event at the Currituck County Landfill is in June of 2015.

Please do not hesitate to contact the undersigned at 252.261.3300 if you have any questions or require any additional information in this matter.

Sincerely,

Quible & Associates, P.C.


Warren Eadus, P.G.



enc As stated
pdf copy of all documentation

cc Brenda McQueen
file



PROJECT
07014.1

DRAWN BY
CADD

CHECKED BY
WDE

DATE
08/12/15

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SHALLOW WATER TABLE SURFACE MAP-06/10/15

CURRITUCK COUNTY MSW LANDFILL 27-03

MAPLE TOWNSHIP CURRITUCK
NORTH CAROLINA

0 300 600
GRAPHIC SCALE IN FEET 1"=300

Quible SINCE 1959
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E-Mail: administrator@quible.com

Summary of Groundwater and Surface Water Analytical Data-Metals
Currituck County Landfill Permit #27-01

Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
Arsenic	6/27/2007	61	6.6	4.7	<0.47	3.8	17	1.1	0.8	0.6		
	12/6/2007	55	5.9	5.5	1.7	5.7	36	3.1	2	<0.47		
	6/27/2008	166	5.1	5	0.7	7	24	2.8	24	0.9		
	12/10/2008	8.3	4.1	3.3	0.7	4	18	2.9	2.5	1		
	6/16/2009	134	4.2	4.4	0.7	3.9	29	4.1	1.6	0.6		
	12/7/2009	41	3	4.2	0.2	1.4	23	7.4	2	<0.17		
	6/14/2010	279	4.3	39	0.5	2	15	4.7	2.1	0.8		
	12/21/2010	32	3.4	8	1.2	1.8	21	5.2	6.2	0.4		
	6/9/2011	59	4.4	8	0.39	1.1	15	3.8	2.5	0.85	10	10
	12/8/2011	14	3.4	5.6	0.43	0.54	13	8	3.3	0.4		
Barium	6/4/2012	27	5.5	4.3	0.2	0.38	57	9	2.1	0.74		
	12/13/2012	73	6.2	4.9	0.44	0.98	67	11	3.3	0.57		
	6/20/2013	20	5.1	4.3	0.08	0.55	10	4	3.3	0.73		
	12/18/2013	1.3	5.6	3.7	<0.05	0.17	12	1.9	2.8	0.46		
	6/12/2014	2.9	9	4.3	<0.10	0.36	8	0.82	2.8	0.2		
	12/23/2014	4.4	0.98	3.8	<0.10	0.16	30	2.3	3.5	0.53		
	6/10/2015	11	3.5	3.9	0.25	0.23	8	1.2	3.6	0.81		
	Sample ID	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
	6/27/2007	38.2	121	8.6	43.5	159	26	26.9	51	15.3		
	12/6/2007	30.3	96.3	8.4	65.3	172	35.8	23.7	162	18.3		
	6/27/2008	52.3	100	9.2	48.4	184	29	20.8	165	14.7		
	12/10/2008	37.4	125	8.6	45.1	116	29.6	17.5	226	8		
	6/16/2009	48.4	116	10.5	42.8	117	26.4	32.9	359	7		
	12/7/2009	60.3	73.6	11.3	34.4	58.7	22.8	17	394	15.7		
	6/14/2010	52.6	135	9.6	42.6	98.5	28.7	30.7	286	37		
	12/21/2010	45.1	100	8.1	57.7	63.5	22.8	24.2	333	12.9		
	6/9/2011	50.6	109	10	43.8	86.8	24.6	18.7	493	15.3	700	100
	12/8/2011	45	77.3	7	71.6	46.3	23.1	20.1	228	13.4		
	6/4/2012	40.1	76.5	8.5	31.5	16.9	22.6	16.7	444	113		
	12/13/2012	48.4	45.3	8.7	37.9	46.1	22.3	24.8	213	11.2		
	6/20/2013	36.1	45.2	9.2	42.3	38.4	21.1	23.1	335	9		
	12/18/2013	36	34.5	9.1	34.4	6.1	22.7	21.2	226	11.9		
	6/12/2014	26.6	89.4	7.9	36.5	27.1	24.0	23.9	293	7.8		
	12/23/2014	34.2	45.5	11.0	61.0	24.6	22.8	26.5	181	10.3		
	6/10/2015	29.3	34.0	9.7	25.3	17.1	23.7	21.7	118	4.9		

Summary of Groundwater and Surface Water Analytical Data-Metals
 Currinck County Landfill Permit #27-01

Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
Cadmium	6/27/2007	0.3	0.2	<0.06	0.9	<0.06	<0.06	0.1	0.8	0.7		
	12/6/2007	0.1	0.2	0.1	1.2	0.1	0.2	0.2	0.8		<0.06	
	6/27/2008	0.2	0.2	0.1	0.3	0.1	<0.04	0.1	0.4	0.1		
	12/10/2008	0.3	0.2	<0.04	0.2	<0.04	0.1	0.4	0.3	0.1		
	6/16/2009	0.4	0.1	0.2	0.3	<0.04	0.1	0.5	0.6	0.1		
	12/7/2009	0.3	0.2	0.1	0.2	<0.04	<0.04	0.1	0.6		<0.04	
	6/14/2010	0.2	0.1	0.1	0.4	<0.02	0.5	0.2	0.3	0.1		
	12/21/2010	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.8	0.1		
	6/9/2011	1	0.18	0.52	0.2	0.06	0.06	0.15	0.23	0.06	2.0	1.0
	12/8/2011	0.06	0.19	0.07	0.19	0.22	<0.02	0.06	0.18		<0.02	
	6/4/2012	0.08	0.33	0.16	0.13	0.04	0.11	0.06	0.67	0.03		
	12/13/2012	0.13	0.11	0.12	0.15	0.03	<0.03	0.11	0.41	<0.03		
	6/20/2013	0.14	0.06	0.05	0.14	0.08	<0.05	0.08	0.26	0.23		
	12/18/2013	0.06	0.27	<0.05	0.07	<0.05	<0.05	0.09	0.11	<0.05		
	6/12/2014	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	0.21	<0.04		
	12/23/2014	2	0.09	0.12	0.52	0.13	0.08	0.08	0.64	0.29	<0.04	
	6/10/2015	0.08	0.06	<0.01	0.67	0.05	0.10	0.06	<0.01	<0.01		
Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
Total Chromium	6/27/2007	1.9	1.1	0.5	1.5	4.1	0.4	0.9	1.4	0.5		
	12/6/2007	1	0.3	<0.24	1.5	4.3	<0.24	0.4	1.7		<0.24	
	6/27/2008	1.7	0.5	<0.11	0.8	4.1	<0.11	0.2	1.6		<0.11	
	12/10/2008	<0.11	1.3	<0.11	0.7	4.2	<0.11	<0.11	1.8		<0.11	
	6/16/2009	2.5	0.7	<0.10	0.3	3.7	<0.10	0.4	2.2		<0.10	
	12/7/2009	0.3	0.8	<0.10	0.3	2.4	<0.10	<0.10	1.1		<0.10	
	6/14/2010	3.4	0.2	0.7	0.6	2.7	<0.03	0.4	1.3		<0.03	
	12/21/2010	0.8	1.9	0.3	0.7	2.8	0.2	0.8	3.5	0.1		
	6/9/2011	1.2	0.5	0.24	0.55	2.5	<0.04	0.72	2.2	0.1		
	12/8/2011	0.25	0.74	<0.04	0.36	1.9	<0.04	0.59	3.1	0.6		
	6/4/2012	1.2	1.1	0.25	0.40	1.3	0.24	0.66	2.4	0.42		
	12/13/2013	1.50	0.92	<0.18	0.27	2.0	<0.18	0.94	2.7	0.49		
	6/20/2013	0.29	0.54	<0.04	<0.04	1.1	<0.04	0.2	2.2	<0.04		
	12/18/2013	0.32	0.92	0.14	0.09	1.3	<0.04	0.25	2.4	0.5		
	6/12/2014	0.46	0.76	<0.14	<0.14	1.00	<0.14	<0.14	2.3	<0.14		
	12/23/2014	1.4	1.3	0.40	0.40	1.7	0.4	0.78	3.0	0.14		
	6/10/2015	0.68	0.97	0.18	0.14	0.78	<0.12	0.26	2.5	<0.12		

Summary of Groundwater and Surface Water Analytical Data-Metals

Summary of Groundwater and Surface Water Analytical Data-Metals
Currituck County Landfill Permit #27-01

Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
Selenium	6/27/2007	<0.35	1.7	0.5	0.5	5	0.6	1.1	0.6	<0.35		
	12/6/2007	0.4	3.7	0.6	4.8	11	0.9	4	3.6	<0.35		
	6/27/2008	1.7	5.3	1	0.6	18	2.5	2.4	5.2	0.5		
	12/10/2008	0.2	2.9	0.7	0.5	7.4	0.6	4.4	3.8	0.3		
	6/16/2009	1.2	3.6	0.9	0.4	8.1	1.6	3.2	3.4	0.2		
	12/7/2009	<0.12	2.6	0.7	0.2	3.5	1.5	0.9	4.3	<0.12		
	6/14/2010	1.5	2	1.5	<0.32	2.2	1.5	0.9	3.2	0.5		
	12/21/2010	<0.32	1.6	0.8	2.2	2.8	1.1	2.3	2.9	<0.32		
	6/9/2011	0.38	1.5	0.55	0.3	1.5	1.3	0.71	4.9	0.28	20	10
	12/8/2011	<0.20	0.94	<0.20	0.56	0.63	0.68	0.88	6.5	<0.20		
Silver	6/4/2012	0.45	1.6	0.54	<0.17	0.52	1.1	0.60	3.7	0.45		
	12/13/2013	0.28	0.98	0.60	0.34	1.6	1.5	1.8	5.7	0.28		
	6/20/2013	0.29	2	0.67	0.13	0.88	1.4	1.90	6.6	0.25		
	12/18/2013	<0.06	1.2	1	<0.06	<0.06	2	0.55	7.1	0.72		
	6/12/2014	<0.16	1.4	<0.16	<0.16	<0.16	0.43	<0.16	5.5	<0.16		
	12/23/2015	0.21	1.2	0.38	<0.16	0.16	0.59	0.42	8.9	0.53		
	6/10/2015	0.23	0.91	0.46	<0.22	0.30	1.3	0.62	7.3	0.42		
	6/27/2007	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	
	12/6/2007	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	
	6/27/2008	0.1	<0.04	0.1	<0.04	0.1	<0.04	0.1	0.1	0.1	<0.04	
Sulfate	12/10/2008	<0.04	0.8	<0.04	<0.04	0.1	<0.04	0.1	0.1	0.1	0.1	
	6/16/2009	<0.04	0.1	<0.04	<0.04	0.1	<0.04	<0.04	<0.04	<0.04	<0.04	
	12/7/2009	0.1	0.1	0.1	<0.04	0.1	<0.04	<0.04	<0.04	<0.04	0.1	
	6/14/2010	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.1	
	12/21/2010	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
	6/9/2011	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
	12/8/2011	<0.02	0.04	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	
	6/4/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
	12/13/2013	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
	6/20/2013	<0.03	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
TDS	12/18/2013	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
	6/12/2014	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	12/23/2015	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	6/10/2015	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01	

Notes:

1. Groundwater and surface water samples collected by Environment 1, Incorporated on behalf of Currituck County.
2. Laboratory Analytical Reports provided by Currituck County. All results reported in µg/L.
3. NC DENR Division of Water Quality Title 15A NCAC 2L .0202 Groundwater Quality Standards effective April 1, 2013.
4. NC DENR Division of Waste Management Solid Waste Section Limit.
5. Concentrations in bold type meet or exceed either of the current 2L GQS or SWSL.

Currituck County Landfill #27-24 Summary of Groundwater and Surface Water Analytical Data-Volatile Organics

Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
Benzene	6/27/2007	<0.16	0.8	<0.16	<1.0	1.8	0.8	<0.16	<0.16	<0.16	<0.24	
	12/6/2007	<0.16	0.4	<0.16	<0.16	1.6	0.7	<0.16	0.9	0.9	<0.16	
	6/27/2008	<0.16	0.5	<0.16	<0.16	1.5	0.7	<0.16	0.8	0.8	<0.16	
	12/10/2008	<0.16	0.6	<0.16	<0.16	1.4	0.5	<0.16	0.7	0.7	<0.16	
	6/16/2009	<0.16	0.7	<0.16	<0.16	1.6	0.6	<0.16	0.7	0.7	<0.16	
	12/7/2009	<0.24	<0.24	<0.24	<0.24	1.1	1.3	<0.24	0.8	0.8	<0.24	
	6/14/2010	<0.24	0.4	<0.24	<0.24	0.9	1.8	<0.24	0.9	0.9	<0.24	
	12/21/2010	<0.24	<0.24	<0.24	<0.24	<0.24	0.6	<0.24	1.4	1.4	<0.24	
	6/9/2011	<0.24	<0.24	<0.24	<0.24	0.6	1.6	<0.24	1.2	1.2	<0.24	
	12/8/2011	<0.24	<0.24	<0.24	<0.24	0.5	2.0	<0.24	1.9	1.9	<0.24	
	6/4/2012	<0.24	<0.24	<0.24	<0.24	<0.24	2.10	<0.24	1.20	1.20	<0.24	
	12/13/2012	<0.24	<0.24	<0.24	<0.24	0.90	1.70	<0.24	1.00	1.00	<0.24	
	6/20/2013	<0.24	<0.24	<0.24	<0.24	0.4	1.70	<0.24	1.40	1.40	<0.24	
	12/18/2013	<0.24	<0.24	<0.24	<0.24	<0.24	1.70	<0.24	1.20	1.20	<0.24	
	6/12/2014	<0.24	<0.24	<0.24	<0.24	<0.24	1.80	<0.24	1.60	1.60	<0.24	
	12/23/2014	<0.24	<0.24	<0.24	<0.24	<0.24	1.10	<0.24	1.50	1.50	<0.24	
	6/10/2015	<0.24	<0.24	<0.24	<0.24	<0.24	1.80	<0.24	1.50	1.50	<0.24	
Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
Chlorobenzene	6/27/2007	<0.13	34.9	<0.13	<0.13	1	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
	12/6/2007	<0.13	10.5	<0.13	<0.13	1.4	0.2	<0.13	0.9	0.9	<0.13	
	6/27/2008	<0.13	6	<0.13	<0.13	1.3	<0.13	<0.13	1	1	<0.13	
	12/10/2008	<0.13	5.7	<0.13	<0.13	1	<0.13	<0.13	1.4	1.4	<0.13	
	6/16/2009	<0.13	5.3	<0.13	<0.13	1.7	<0.13	0.3	0.8	0.8	<0.13	
	12/7/2009	<0.30	1.2	<0.30	<0.30	1.1	<0.30	<0.30	0.8	0.8	<0.30	
	6/14/2010	<0.30	7.8	<0.30	<0.30	0.6	<0.30	<0.30	1.2	1.2	<0.30	
	12/21/2010	<0.30	2.8	<0.30	<0.30	0.4	<0.30	<0.30	3.4	3.4	<0.30	
	6/9/2011	<0.30	5	<0.30	<0.30	0.6	<0.30	<0.30	3.7	3.7	<0.30	
	12/8/2011	<0.30	4.2	<0.30	<0.30	<0.30	0.6	0.3	6.7	6.7	<0.30	
	6/4/2012	<0.30	2.7	<0.30	<0.30	<0.30	0.4	<0.30	3.4	3.4	<0.30	
	12/13/2012	<0.30	1.2	<0.30	<0.30	0.70	0.40	0.50	4.70	4.70	<0.30	
	6/20/2013	<0.30	1.9	<0.30	<0.30	0.5	0.4	0.4	3.3	3.3	<0.30	
	12/18/2013	<0.30	0.30	<0.30	<0.30	0.70	0.30	0.30	2.60	2.60	<0.30	
	6/12/2014	<0.30	4.4	<0.30	<0.30	<0.30	0.80	<0.30	4.00	4.00	<0.30	
	12/23/2014	<0.30	<0.30	<0.30	<0.30	0.50	<0.30	0.50	3.60	3.60	<0.30	
	6/10/2015	<0.30	<0.30	<0.30	<0.30	0.80	<0.30	0.80	3.80	3.80	<0.30	

Currituck County Landfill #27-24 Summary of Groundwater and Surface Water Analytical Data-Volatile Organics

Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWS _L ³
1,4-dichlorobenzene	6/27/2007	<0.21	0.4	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
	12/6/2007	<0.21	0.3	<0.21	<0.21	<0.21	<0.21	<0.21	0.3	0.3	<0.21	<0.21
	6/27/2008	<0.21	0.3	<0.21	<0.21	<0.21	<0.21	<0.21	0.3	0.3	<0.21	<0.21
	12/10/2008	<0.21	0.3	<0.21	<0.21	<0.21	<0.21	<0.21	0.3	0.3	<0.21	<0.21
	6/16/2009	<0.21	0.4	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
	12/7/2009	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
	6/14/2010	<0.39	0.5	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
	12/21/2010	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.8	<0.39	6
	6/9/2011	<0.39	0.4	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.7	<0.39	2L GQS
	12/8/2011	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	1	<0.39	
	6/4/2012	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.6	<0.39	
	12/13/2012	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.70	<0.39	
	6/20/2013	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.6	<0.39	
	12/18/2013	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.60	<0.39	
	6/12/2014	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.60	<0.39	
	12/23/2015	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.50	<0.39	
	6/10/2015	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	0.50	<0.39	

Currituck County Landfill #27-24 Summary of Groundwater and Surface Water Analytical Data-Volatile Organics

Currituck County Landfill #27-24 Summary of Groundwater and Surface Water Analytical Data-Volatile Organics

Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
1,1-dichloroethane	6/27/2007	<0.16	<0.16	<0.16	0.2	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
	12/6/2007	<0.16	<0.16	<0.16	0.4	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
	6/27/2008	<0.16	<0.16	<0.16	0.2	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
	12/10/2008	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	1.1	<0.16	<0.16	<0.16
	6/16/2009	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	0.4	<0.16	<0.16	<0.16
	12/7/2009	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	6/14/2010	<0.20	<0.20	<0.20	<0.20	<0.20	0.4	<0.20	<0.20	<0.20	<0.20	<0.20
	12/21/2010	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.4	<0.20	<0.20	<0.20
	6/9/2011	<0.20	<0.20	<0.20	<0.20	<0.20	0.5	<0.20	0.7	<0.20	<0.20	<0.20
	12/8/2011	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.4	<0.20	<0.20	<0.20
	6/4/2012	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.7	<0.27	<0.27	<0.27
	12/13/2012	<0.20	<0.20	<0.20	<0.20	<0.20	0.30	<0.20	0.60	<0.20	<0.20	<0.20
	6/20/2013	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
	12/18/2013	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	0.50	<0.20	<0.20	<0.20
	6/12/2014	<0.20	<0.20	<0.20	<0.20	<0.20	0.30	<0.20	0.40	<0.20	<0.20	<0.20
	12/23/2015	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.60	<0.20	<0.20	<0.20
	6/10/2015	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	<0.20	0.40	<0.20	<0.20	<0.20
Chloroethane	Sample ID	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
	6/27/2007	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
	12/6/2007	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	0.4	<0.29	<0.29	<0.29
	6/27/2008	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
	12/10/2008	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	3.8	<0.29	<0.29	<0.29
	6/16/2009	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	0.8	<0.29	<0.29	<0.29
	12/7/2009	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	1.1	<0.48	<0.48	<0.48
	6/14/2010	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	0.8	<0.48	<0.48	<0.48
	12/21/2010	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
	6/9/2011	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	0.9	<0.48	<0.48	<0.48
	12/8/2011	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.70	<0.48	<0.48	<0.48
	6/4/2012	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	1.2	<0.48	<0.48	<0.48
	12/13/2012	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
	6/20/2013	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
	12/18/2013	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
	6/12/2014	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	1.30	<0.48	<0.48	<0.48
	12/23/2015	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	0.50	<0.48	<0.48	<0.48
	6/10/2015	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	1.40	<0.48	<0.48	<0.48

Currituck County Landfill #27-24

Summary of Groundwater and Surface Water Analytical Data-Volatile Organics

Sample ID	Date	Well #1	Well #2	Well #3	Well #4	Well #5	Well #6	Well #7	Well #8	Pond	2L GQS ²	SWSL ³
Cis-1,2 Dichloroethene	6/27/2007	<0.14	<0.14	<0.14	0.2	0.8	<0.14	<0.14	<0.14	<0.14	<0.25	<0.25
	12/6/2007	<0.14	<0.14	<0.14	0.2	0.3	<0.14	<0.14	<0.14	<0.14	<0.25	<0.25
	6/27/2008	<0.14	<0.14	<0.14	0.2	0.8	<0.14	<0.14	<0.14	<0.14	<0.25	<0.25
	12/10/2008	<0.14	<0.14	<0.14	0.2	0.2	<0.14	<0.14	<0.14	<0.14	<0.25	<0.25
	6/16/2009	<0.14	<0.14	<0.14	<0.14	0.5	<0.14	<0.14	<0.14	<0.14	<0.25	<0.25
	12/7/2009	<0.25	<0.25	<0.25	<0.25	0.8	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	6/14/2010	<0.25	<0.25	<0.25	<0.25	0.7	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	12/21/2010	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	6/9/2011	<0.25	<0.25	<0.25	<0.25	0.7	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	12/8/2011	<0.25	<0.25	<0.25	<0.25	0.6	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Toluene	6/4/2012	<0.25	<0.25	<0.25	<0.25	0.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	12/13/2012	<0.25	<0.25	<0.25	<0.25	0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	6/20/2013	<0.25	<0.25	<0.25	<0.25	0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	12/18/2013	<0.25	<0.25	<0.25	<0.25	0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	6/12/2014	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	12/23/2015	<0.25	<0.25	<0.25	<0.25	0.30	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	6/10/2015	<0.25	<0.25	<0.25	<0.25	0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	12/8/2011	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	6/4/2012	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	12/13/2012	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
Xylenes	6/20/2013	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	12/18/2013	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	6/12/2014	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	12/23/2015	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	6/10/2015	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	12/8/2011	<0.25	<0.25	<0.25	<0.25	0.6	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	6/4/2012	<0.68	<0.68	<0.68	<0.68	0.8	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
	12/13/2012	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
	6/20/2013	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
	12/18/2013	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
	6/12/2014	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	12/23/2015	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23
	6/10/2015	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68

Notes:

1. Groundwater and surface water samples collected by Environment 1, Incorporated on behalf of Currituck County.
2. Laboratory Analytical Reports provided by Currituck County. All results reported in µg/L.

3. NC DENR Division of Water Quality Title 15A NCAC 2L .0202 Groundwater Quality Standards effective April 1, 2013.
4. NC DENR Division of Waste Management Solid Waste Section Limit
5. Concentrations in bold type meet or exceed either of the current 2L GQS or SWSL.

Table of Values Which Exceed Established Standards And/Or Exceed Reporting Levels

Facility Name: CURRITUCK COUNTY LANDFILL

Permit #: 2701

Lah Ind 6028

** Note: NC 2L STD = NC 2L Ground Water Standard

NC GWP STD = NC Solid Waste Groundwater Protection Standard

NC 2B SWS = NC 2B Surface Water Standard

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6028

CURRITUCK COUNTY LANDFILL
PUBLIC WORKS DEPARTMENT
153 COURTHOUSE RD SUITE 302
CURRITUCK , NC 27929

DATE COLLECTED: 06/10/15
DATE REPORTED : 07/10/15

REVIEWED BY: 

PARAMETERS	MDL	Well SWSL #1	Well #2	Well #3	Well #4	Well #5	Analysis Date	Analyst	Method Code
pH (field measurement), Units		4.6	6.1	5.8	5.5	5.5	06/10/15	BF	4500HR-00
Arsenic, ug/l	0.14	10.0	11	3.5 J	3.9 J	0.25 J	0.23 J	06/15/15	LFJ EPA200.8
Barium, ug/l	0.01	100.0	29.3 J	34.0 J	9.7 J	25.3 J	17.1 J	06/15/15	LFJ EPA200.8
Cadmium, ug/l	0.01	1.0	0.08 J	0.06 J	---	0.67 J	0.05 J	06/15/15	LFJ EPA200.8
Total Chromium, ug/l	0.12	10.0	0.68 J	0.97 J	0.18 J	0.14 J	0.78 J	06/15/15	LFJ EPA200.8
Lead, ug/l	0.03	10.0	0.35 J	0.24 J	---	0.62 J	0.09 J	06/15/15	LFJ EPA200.8
Mercury, ug/l	0.05	0.20	---	U	---	U	---	U	06/15/15 MTM 245.1 R3-9
Selenium, ug/l	0.22	10.0	0.23 J	0.91 J	0.46 J	---	0.30 J	06/15/15 LFJ	EPA200.8
Silver, ug/l	0.01	10.0	---	U	0.02 J	---	U	06/15/15 LFJ	EPA200.8
Conductivity (at 25c), uMhos/cm	1.0	1.0	88	436	243	130	206	06/10/15	BF 2510B-97
Temperature, °C			20	19	19	19	19	06/10/15	BF 2550B-00
Static Water Level, feet			4.62	3.13	4.54	7.98	7.20	06/10/15	BF
Well Depth, feet			21.15	18.63	21.34	23.60	20.34	06/10/15	BF

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

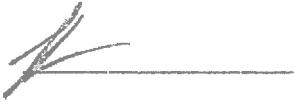
P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 755-6208
FAX (252) 755-0633

ID#: 6028

CURRITUCK COUNTY LANDFILL
PUBLIC WORKS DEPARTMENT
153 COURTHOUSE RD SUITE 302
CURRITUCK ,NC 27929

DATE COLLECTED: 06/10/15
DATE REPORTED : 07/10/15

REVIEWED BY: 

PARAMETERS	MDL	SWSL	Well	Well	Well	Pond	Analysis Date	Analyst	Method Code
			#6	#7	#8				
PH (field measurement), Units			5.1	6.2	6.4	6.8	06/10/15	BF	4500HB-00
Arsenic, ug/l	0.14	10.0	8 J	1.2 J	3.6 J	0.81 J	06/15/15	LFJ	EPA200.8
Barium, ug/l	0.01	100.0	23.7 J	21.7 J	118	4.9 J	06/15/15	LFJ	EPA200.8
Cadmium, ug/l	0.01	1.0	0.10 J	0.06 J	---	---	06/15/15	LFJ	EPA200.8
Total Chromium, ug/l	0.12	10.0	---	U	0.26 J	2.5 J	06/15/15	LFJ	EPA200.8
Lead, ug/l	0.03	10.0	0.03 J	---	U	0.03 J	06/15/15	LFJ	EPA200.8
Mercury, ug/l	0.05	0.20	---	U	---	---	06/15/15	RTM	245.1 R3-94
Selenium, ug/l	0.22	10.0	1.3 J	0.62 J	7.3 J	0.42 J	06/15/15	LPJ	EPA200.8
Silver, ug/l	0.01	10.0	---	U	---	---	06/15/15	LPJ	EPA200.8
Silvers, ug/l	0.01	10.0				0.01 J	06/16/15	LPJ	EPA200.8
Conductivity (at 25c), uKhos/cm	1.0	1.0	222	446	1914	131	06/10/15	BF	2510B-97
Temperature, °C			20	22	17	30	06/10/15	BF	2550B-00
Static Water Level, feet			4.55	6.00	3.78		06/10/15	BF	
Well Depth, feet			20.92	20.40	20.88		06/10/15	BF	

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Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
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CLIENT: CURRITUCK COUNTY LANDFILL
PUBLIC WORKS DEPARTMENT
153 COURTHOUSE RD SUITE 302
CURRITUCK, NC 27929

CLIENT ID: 6028
ANALYST: MAO
DATE COLLECTED: 06/10/15 Page: 1
DATE REPORTED: 07/10/15

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed:		06/11/15	06/16/15	06/16/15	06/16/15	06/16/15
	MDL	SWL	Well #1	Well #2	Well #3	Well #4	Well #5
1. Chloromethane	0.77	1.0	---	U	---	U	---
2. Vinyl Chloride	0.63	1.0	---	U	---	U	---
3. Bromomethane	0.67	10.0	---	U	---	U	---
4. Chloroetbase	0.48	10.0	---	U	---	U	---
5. Trichlorofluoromethane	0.24	1.0	---	U	---	U	---
6. 1,1-Dichloroethene	0.17	5.0	---	U	---	U	---
7. Acetone	9.06	100.0	---	U	---	U	---
8. Iodomethane	0.26	10.0	---	U	---	U	---
9. Carbon Disulfide	0.23	100.0	0.30 J	0.40 J	0.40 J	0.40 J	0.40 J
10. Methylene Chloride	0.64	1.0	---	U	---	U	---
11. trans-1,2-Dichloroethene	0.23	5.0	---	U	---	U	---
12. 1,1-Dichloroethane	0.20	5.0	---	U	---	U	---
13. Vinyl Acetate	0.20	50.0	---	U	---	U	---
14. Cis-1,2-Dichloroethene	0.25	5.0	---	U	---	U	---
15. 2-Butanone	2.21	100.0	---	U	---	U	---
16. Bromochloromethane	0.27	3.0	---	U	---	U	---
17. Chlороform	0.25	5.0	---	U	---	U	---
18. 1,1,1-Trichloroethane	0.19	1.0	---	U	---	U	---
19. Carbon Tetrachloride	0.22	1.0	---	U	---	U	---
20. Benzene	0.24	1.0	---	U	---	U	---
21. 1,2-Dichloroethane	0.27	1.0	---	U	---	U	---
22. Trichloroethene	0.23	1.0	---	U	---	U	---
23. 1,2-Dichloropropane	0.21	1.0	---	U	---	U	---
24. Bromodichloromethane	0.21	1.0	---	U	---	U	---
25. Cis-1,3-Dichloropropene	0.24	1.0	---	U	---	U	---
26. 4-Methyl-2-Pentanone	1.19	100.0	---	U	---	U	---
27. Toluene	0.23	1.0	---	U	---	U	---
28. trans-1,3-Dichloropropene	0.28	1.0	---	U	---	U	---
29. 1,1,2-Trichloroethane	0.25	1.0	---	U	---	U	---
30. Tetrachloroethene	0.17	1.0	---	U	---	U	---
31. 2-Hexanone	1.57	50.0	---	U	---	U	---
32. Dibromochloromethane	0.24	3.0	---	U	---	U	---
33. 1,2-Dibromoethane	0.26	1.0	---	U	---	U	---
34. Chlorobenzene	0.30	3.0	---	U	---	U	---
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	---	U	---	U	---
36. Ethylbenzene	0.21	1.0	---	U	---	U	---
37. Xylenes	0.69	5.0	---	U	---	U	---
38. Dibromomethane	0.28	10.0	---	U	---	U	---
39. Styrene	0.19	1.0	---	U	---	U	---
40. Bromoform	0.20	3.0	---	U	---	U	---
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	---	U	---	U	---
42. 1,2,3-Trichloropropane	0.43	1.0	---	U	---	U	---
43. 1,4-Dichlorobenzene	0.39	1.0	---	U	---	U	---
44. 1,2-Dichlorobenzene	0.32	5.0	---	U	---	U	---
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	---	U	---	U	---
46. Acrylonitrile	2.72	200.0	---	U	---	U	---
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	---	U	---	U	---

J = Between MDL and SWL, U = Below ALL Quantitation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

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CLIENT: CURRITUCK COUNTY LANDFILL
PUBLIC WORKS DEPARTMENT
153 COURTHOUSE RD SUITE 302
CURRITUCK, NC 27929

CLIENT ID: 6028
ANALYST: MAO
DATE COLLECTED: 06/10/15 Page: 2
DATE REPORTED: 07/10/15

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B R1(96)

PARAMETERS, ug/l	Date Analyzed:		06/16/15	06/16/15	06/16/15	06/16/15
	MDL	SWSL	Well #6	Well #7	Well #8	Pond
1. Chloromethane	0.77	1.0	---	U	---	U
2. Vinyl Chloride	0.53	1.0	---	U	---	U
3. Bromomethane	0.67	10.0	---	U	---	U
4. Chlороethane	0.48	10.0	---	U	---	U
5. Trichlorofluoromethane	0.24	1.0	---	U	---	U
6. 1,1-Dichloroethane	0.17	5.0	---	U	---	U
7. Acetone	9.06	100.0	---	U	---	U
8. Iodomethane	0.26	10.0	---	U	---	U
9. Carbon Disulfide	0.23	100.0	0.50 J	0.40 J	0.90 J	0.40 J
10. Methylene Chloride	0.64	1.0	---	U	---	U
11. trans-1,2-Dichloroethene	0.23	5.0	---	U	---	U
12. 1,1-Dichloroethane	0.26	5.0	0.20 J	---	0.40 J	---
13. Vinyl Acetate	0.20	50.0	---	U	---	U
14. Cis-1,2-Dichloroethene	0.25	5.0	0.50 J	---	---	U
15. 2-Butanone	2.21	100.0	---	U	---	U
16. Bromochloromethane	0.27	3.0	---	U	---	U
17. Chloroform	0.25	5.0	---	U	---	U
18. 1,1,1-Trichloroethane	0.19	1.0	---	U	---	U
19. Carbon Tetrachloride	0.22	1.0	---	U	---	U
20. Benzene	0.24	1.0	1.80	---	1.50	---
21. 1,2-Dichloroethane	0.27	1.0	---	U	---	U
22. Trichloroethene	0.23	1.0	---	U	---	U
23. 1,2-Dichloropropane	0.21	1.0	---	U	---	U
24. Bromodichloromethane	0.21	1.0	---	U	---	U
25. Cis-1,3-Dichloropropene	0.24	1.0	---	U	---	U
26. 4-Methyl-2-Pentanone	1.19	100.0	---	U	---	U
27. Toluene	0.23	1.0	---	U	0.30 J	---
28. trans-1,3-Dichloropropene	0.28	1.0	---	U	---	U
29. 1,1,2-Trichloroethane	0.25	1.0	---	U	---	U
30. Tetrachloroethane	0.17	1.0	---	U	---	U
31. 2-Hexanone	1.57	50.0	---	U	---	U
32. Dibromochloromethane	0.24	3.0	---	U	---	U
33. 1,2-Dibromoethane	0.26	1.0	---	U	---	U
34. Chlorobenzene	0.30	3.0	0.80 J	---	3.80	---
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	---	U	---	U
36. Ethylbenzene	0.21	1.0	---	U	---	U
37. Xylenes	0.68	5.0	---	U	---	U
38. Dibromomethane	0.28	10.0	---	U	---	U
39. Styrene	0.19	1.0	---	U	---	U
40. Bromoform	0.20	3.0	---	U	---	U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	---	U	---	U
42. 1,2,3-Trichloropropane	0.43	1.0	---	U	---	U
43. 1,4-Dichlorobenzene	0.39	1.0	---	U	0.50 J	---
44. 1,2-Dichlorobenzene	0.32	5.0	---	U	---	U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	---	U	---	U
46. Acrylonitrile	2.72	200.0	---	U	---	U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	---	U	---	U

J = Between MDL and SWSL, U = Below ALL Quantitation Limits.

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CHAIN OF CUSTODY RECORD

Page 1 of 1

四〇三

Sampler must place a "C" for composite sample or a "G" for

二〇三

